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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/787,526	12/30/2002	Akihiro Yaguchi	500.39915X00	3013	
75	590 08/12/2004		EXAMINER		
Gregory E Montone			NGUYEN, CUONG QUANG		
Suite 1800 1300 North Seventeenth Street			ART UNIT	PAPER NUMBER	
Arlington, VA	22209		2811	2811	
			DATE MAILED: 08/12/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summany	09/787,526	YAGUCHI ET AL.				
Office Action Summary	Examiner	Art Unit	0.1			
	Cuong Q Nguyen	2811	An			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with t	the correspondence add	lress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS, cause the application to become ABANI	be timely filed  O) days will be considered timely. From the mailing date of this corponed (35 U.S.C. § 133).	nmunication.			
Status						
1) Responsive to communication(s) filed on	_·					
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	☐ This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-16</u> is/are pending in the application 4a) Of the above claim(s) <u>3,4,6-8,15 and 16</u> is/5) ☐ Claim(s) is/are allowed.  6) ⊠ Claim(s) <u>1,2,5,9 and 10</u> is/are rejected.  7) ⊠ Claim(s) <u>11-14</u> is/are objected to.  8) ☐ Claim(s) are subject to restriction and/o	are withdrawn from considera	ation.				
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by drawing(s) be held in abeyance. ion is required if the drawing(s)	See 37 CFR 1.85(a). is objected to. See 37 CF				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in App rity documents have been re u (PCT Rule 17.2(a)).	lication No ceived in this National S	Stage			
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		mary (PTO-413) lail Date mal Patent Application (PTO	-152)			

Application/Control Number: 09/787,526 Page 2

Art Unit: 2811

### **DETAILED ACTION**

#### Election/Restriction

1. Applicant's election with traverse of Embodiment I, claims 1-2, 5 and 9-14 is acknowledged. The traversal is on the ground(s) that Embodiments have common subject matter, so the presence of the embodiments should present no undue burden for purposes of examination as might warrant a requirement for election of. This is not found persuasive because, in detail, these Embodiments are distinct and not obvious to each other. According to MPEP 802.01 that application including claims containg two distinct invention, Applicants have to elect only one of these invention. However, there is no evidence of record that the search and examination of an entire application including two distinct inventions can be made without serious burden for Examiner.

The requirement is still deemed proper and is therefore made FINAL.

### **Specification**

2. A new title is required that is clearly indicative of the invention to which the claims are directed.

#### Oath/Declaration

3. No Oath/Declaration in the file.

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 5, 9, and 10 are rejected under 35 U.S.C. 102() as being anticipated by Ohsawa et al. (US 6,051,450).

Regarding claims 1, 2, Ohsawa et al. discloses a semiconductor device comprising: a semiconductor substrate (it is inherent that a semiconductor chip 12 including a semiconductor substrate) formed with pads (6); a passivation film formed on a surface of semiconductor substrate on a pad forming side (a layer directly contact to layer 14); lands for connection to external terminals (11), lands are formed on an insulation film formed on a surface of passivation film opposite to the semiconductor substrate; wherein pads and lands are connected by conductive wiring lines; and projections are formed on each of lands at a positions where lands are connected to the external terminals. See Ohsawa et al.'s Fig.3E.

Regarding claim 5, the insulation is considered as an insulating protective film.

Regarding claims 9, 10, as shown in Ohsawa et al.'s Fig.3E, the projections are positioned in a projected areas of lands, wherein the external terminals and the projections are respectively each bonded via a metal thin film on a surface of the projection (col.7, lines 39-44);

#### **Allowable Subject Matter**

1. Claims 11-14 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

- 2. Papers related to this application may be submitted to Technology center (TC) 2800 by facsimile transmission. Papers should be faxed to TC 2800 via the TC 2800 Fax center located in Crystal Plaza 4, room 4-C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 2811 Fax Center number is (703) 872-9306. The Group 2811 Fax Center is to be used only for papers related to Group 2811 applications.
- 3. Any inquiry concerning this communication or any earlier communication from the Examiner should be directed to CUONG Q NGUYEN whose telephone number is (571) 272-1661. The Examiner is in the Office generally between the hours of 6:30 AM to 5:00 PM (Eastern Standard Time) Monday through Thursday.

Art Unit: 2811

- 4. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Eddie Lee who can be reached on (571) 272-1732.
- 5. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center Receptionists whose telephone number is 308-0956.

Cuong/Nguyen

Primary examiner

8/9/04